

MASTER

CASSETTE CAR STEREO
WITH FM/AM ELECTRONIC TUNER

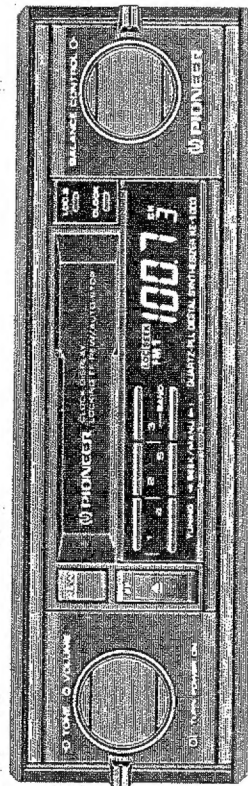
OWNER'S MANUAL

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant de l'utiliser, prenez soin de lire ce manuel.

Muchas gracias por la adquisición de este producto PIONEER. Antes de tratar de operarlo, lea atentamente este manual.

شكرا لك على شرائك جهاز بايونيير هذا. قبل محاولة تشغيله تأكد من قراءة هذا الدليل.



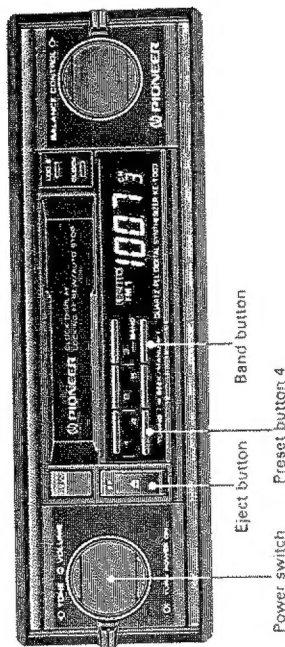
PIONEER

Features

- Seek tuning for automatic tuning to the next higher or lower broadcast on the band.
- Preset tuning function for frequency selection at the touch of a button.
- Built-in 12-hour format digital clock.
- For AM reception, a tuning step is switchable to the other according to the zonal frequency range.

Switching the Tuning Steps

The AM tuning step for this unit can be switched between 9 kHz and 10 kHz. The tuning step is set to 10 kHz upon shipment from the factory. When using in places other than North, Central, and South America, switch to 9 kHz steps.



1. Press the eject button in fully and eject the cassette, then turn the power switch off.
 2. The AM tuning step changes when the band button and preset button 4 are pressed simultaneously and the power switch is turned on. (The frequencies stored in the memory are cleared when this is done.)
- Changing the vehicle's battery sets the tuning steps and frequency range settings to their initial setting.

Specification	Initial Setting	New Setting
Tuning steps	10 kHz steps	9 kHz steps
AM Frequency range	530 -- 1,620 kHz	531 -- 1,602 kHz

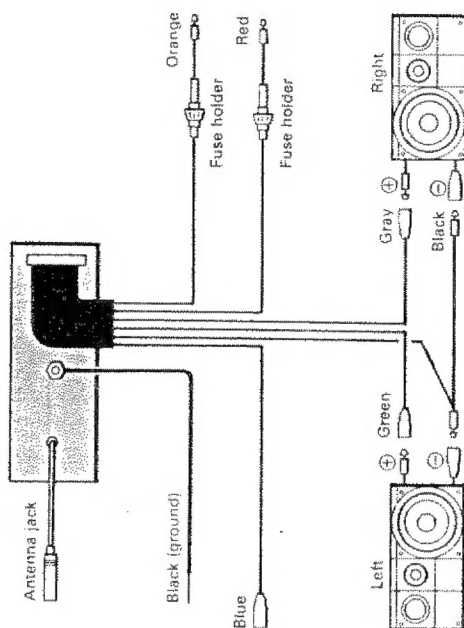
Connections

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Note:

- To avoid shorts in the electrical system, be sure to disconnect the battery ⊖ cable before beginning installation.
- Replace fuses only with the types stipulated on the fuse holder.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.

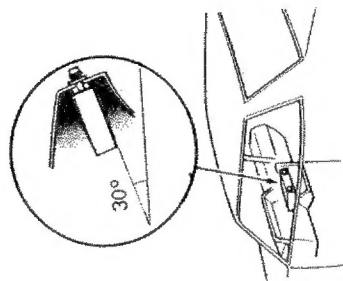
Black (ground)	To vehicle (metal) body.
Blue	System control/Auto-antenna relay control terminal (Max. 300 mA 12 V DC).
Orange	To terminal always supplied with power regardless of ignition switch position.
Red	To electric terminal controlled by ignition switch (12 V DC) ON/OFF.



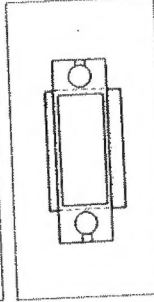
Installation

Note:

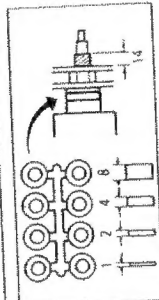
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance. (Fig. 1)



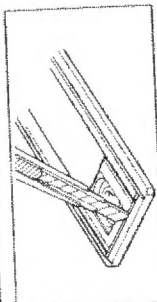
Strap
Be sure to use the strap to secure the back of the unit in place to prevent wobble and flutter. The strap can be bent by hand to the desired angle.



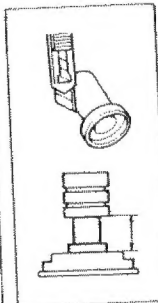
Front cover
The front cover is used when the installation hole in the dashboard is so large that gaps appear along the top and bottom edges of the unit.



Spacer washer
If the shaft extends from the dashboard more than 14 mm, use the spacer washers to adjust the length.



Front panel
The front panel can be cut along the ridges on the back if it is too large to be installed as furnished.

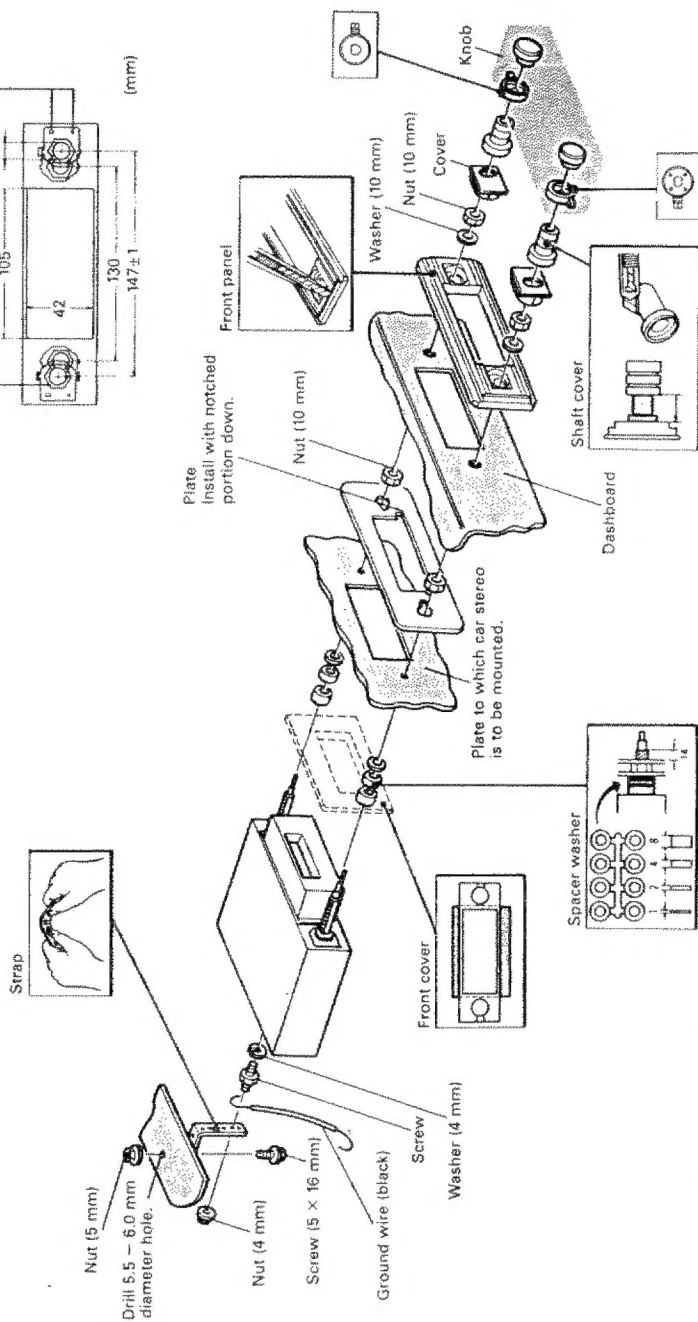
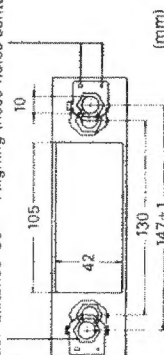


Shaft cover
Cut the shaft cover to the proper size to fill any gap which may occur between the front panel and control knob.

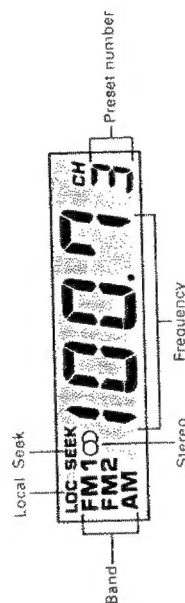
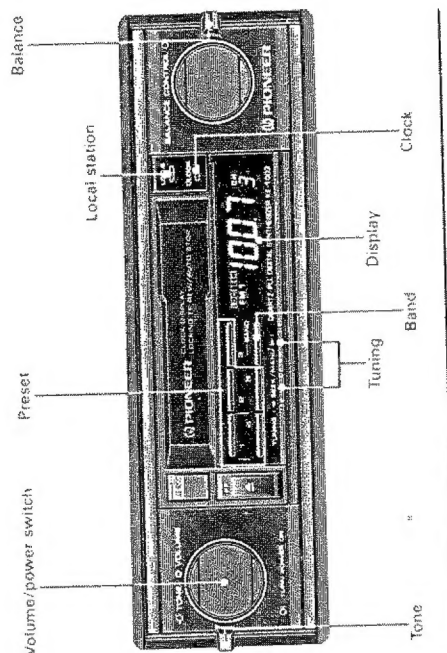
Fig. 1

● Adjusting the shaft interval

Loosen this nut to adjust distance between shafts to 130 mm. Aligning these holes centers the shaft.



Using the Radio



● Before attempting operation...

- Reduce the volume by turning the volume control knob to the left.
- 1. Turning the power switch to the right causes power to switch ON and the current frequency to appear on the display.
- 2. Press the band switch to select the band.
- 3. Press the left and right tuning buttons simultaneously and the seek tuning indicator will appear on the display.
- 4. Press either the left or right side of the tuning button to tune in the desired frequency. (Pressing the right side will increase the frequency.)
- 5. Adjust the volume and balance.
- 6. Adjust the tone.

● To enter a frequency into the preset memory...

- 7. Hold down one of the preset buttons (1-5) for approximately two seconds. The frequency is stored in memory (assigned to the preset button pressed) once the preset number stops flashing on the display.
- Five FM1 frequencies, five FM2 frequencies and five AM frequencies can be entered.

● Local Station Switch

Pressing this switch lowers the seek tuning reception sensitivity so that only stronger signals can be tuned in. This feature is convenient when driving through areas that have numerous radio stations. When this switch is depressed, the local indicator will be illuminated on the display.

Setting the Time

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● Clock Switch

Each press causes the display to switch between clock and frequency.

Seek Tuning

Press the left and right tuning buttons simultaneously, and tuning to the next higher or lower broadcast on the band can be accomplished automatically by simply pressing either the left or right side of the tuning button. FM frequencies change in 50 kHz steps while those in the AM band change in 10 kHz steps.

- AM frequencies are tuned in 9 kHz steps after the tuning steps are changed.

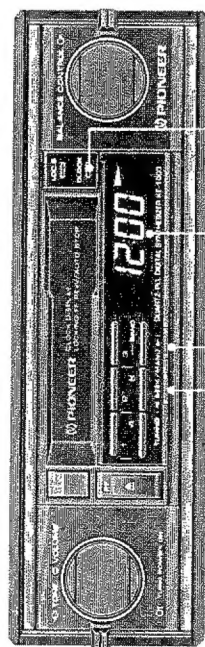
Preset Tuning

Pressing the preset button instantly tunes in the frequency programmed in the memory for that button.

Manual Tuning

When manual tuning is employed, FM frequencies change in 50 kHz steps while AM frequencies change in 10 kHz steps.

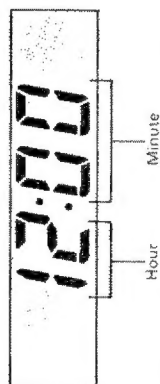
- AM frequencies are tuned in 9 kHz steps after the tuning steps are changed.
1. Press the left and right tuning buttons simultaneously and the seek tuning indicator will disappear from the display.
 2. Change the frequency by pressing either the left or right side of the tuning button. Pressing the button once will change the frequency one step (see above). Continuously depressing either side of the button will successively change the frequency at the prescribed step.



Hour/minute

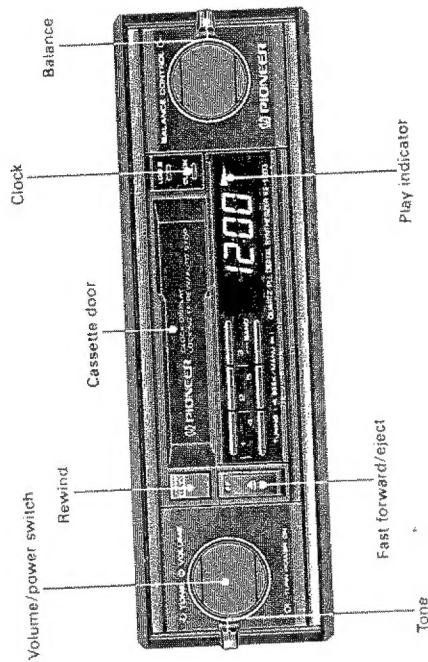
Display

Clock



1. Press the clock switch to switch to the time display.
2. Each press of the left side of the hour/minute control button while holding down the clock switch advances hour display by one hour. Each press of the right side advances minute display one minute. Holding down either side of the hour/minute control button advances the respective hour/minute display at high speed.

Using the Tape Deck



4. Adjust the tone.
5. When playback reaches the end of the tape, the unit will automatically stop (Auto-stop). Press the fast forward/eject button as far as it will go to stop the tape during playback.
 - Be sure to eject the tape when the vehicle's ignition is turned OFF. Leaving the tape in the unit can deform the pinch roller causing wow and flutter during tape playback.
 - Loose tapes should be rewound with the aid of a pencil and unevenly wound tapes rewound with the use of the fast forward function.
- **Fast Forward/Rewind**
To fast forward the tape, press the fast forward/eject button lightly and lock it. To rewind the tape, press the rewind button. When the end of the tape is reached after the fast forward or rewind operation, the tape will stop. Press the fast forward/eject button all the way in to eject the tape.
To stop the fast forward or rewind operation, press the fast forward/eject button lightly to unlock it.

• Before attempting operation...

- Reduce the volume by turning the volume control knob to the left.
1. Turning the power switch to the right causes power to switch ON.
 2. Loading a cassette tape into the load slot causes playback to begin automatically. The unit automatically switches to tape playback even if the radio is ON when the cassette is loaded.
 3. Adjust the volume and balance.

- Do not use tapes longer than C-90-type (90 min.) cassettes. Longer tapes can interfere with tape transport.
- If the playback head becomes dirty, sound quality will suffer. Periodically (once or twice a month) clean the heads with a cotton swab soaked with alcohol. (Fig. 1)
- Storing cassettes in areas directly exposed to sunlight or high temperatures can distort them and subsequently interfere with tape transport. (Fig. 2)
- Store unused tapes in a tape case where there is no danger of them becoming loose or being exposed to dust.
- Frequencies and times stored in memory can be lost when the vehicle's battery is replaced. If this should occur, reprogram the preset memory.

After Service

In the event this unit does not function properly, contact your dealer or the nearest authorized PIONEER Service Center.

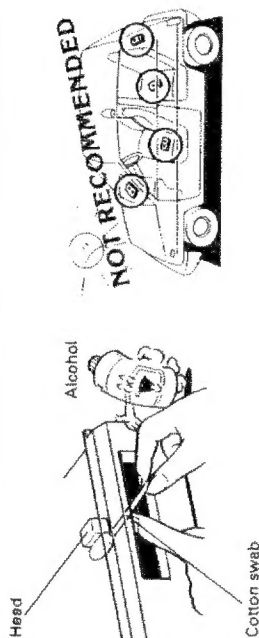


Fig. 1

Specifications

General	
Power source	14.4 V DC (10.8 — 15.6 V allowable)
Grounding system	Negative type
Max. current consumption	1.7 A
Dimensions (chassis)	170(W) × 50(H) × 130(D) mm
Shift interval	103(W) × 42(H) × 39(D) mm
Weight	130 or 147 mm
	1.2 kg
Amplifier	
Maximum power output	8.5 W × 2 (EIAJ)
Continuous power output	4.5 W × 2
Load impedance	4 Ω (2 — 8 Ω allowable)
Tape player	
Tape	Compact cassette tape IC-30 — C-90
Tape speed	4.8 cm/sec.
Fast forward/rewind time	Approx. 80 sec. for C-60
Wow & flutter	0.13% (WRMS)
Frequency response	50 — 14,000 Hz (±3 dB)
Stereo separation	45 dB
Signal-to-noise ratio	52 dB (IEC-A network)
FM tuner	
Frequency range	87.5 — 108 MHz
Usable sensitivity	12 dBf (1.1 μV/75 Ω mono)
50 dB quieting sensitivity	17 dBf (1.9 μV/75 Ω mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	50 — 15,000 Hz (±3 dB)
Stereo separation	35 dB (at 65 dBf, 1 kHz)
AM tuner	
Frequency range (10 kHz channel step)	530 — 1,620 kHz
Usable sensitivity (9 kHz channel step)	531 — 1,602 kHz
18 μV (25 dB) (S/N: 20 dB)	
Selectivity (10 kHz channel step)	50 dB (±10 kHz)
(9 kHz channel step)	50 dB (±9 kHz)

Note: Specifications and the design are subject to possible modification without notice due to improvements.